

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau(43) International Publication Date
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number
WO 2004/092020 A1(51) International Patent Classification⁷: **B65C 9/36**(21) International Application Number:
PCT/US2004/009014

(22) International Filing Date: 24 March 2004 (24.03.2004)

(25) Filing Language: English

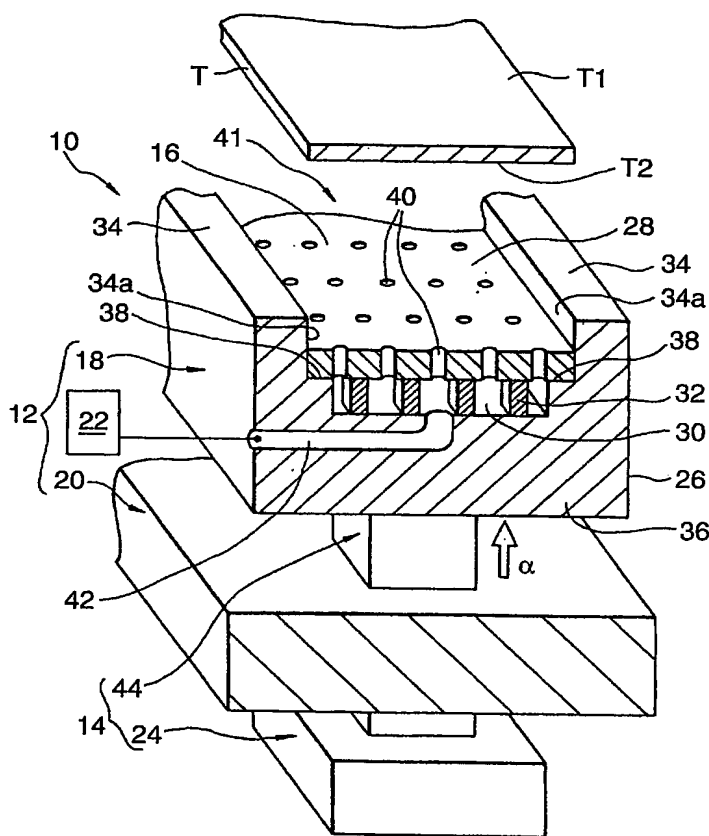
(26) Publication Language: English

(30) Priority Data:
2003-109322 14 April 2003 (14.04.2003) JP(71) Applicant (for all designated States except US): **3M IN-
NOVATIVE PROPERTIES COMPANY** [US/US]; 3M
Center, Post Office Box 33427, Saint Paul, MN 55133-
3427 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FUJINO, Takayoshi**[JP/JP]; 33-1, Tamagawadai 2-chome, --tagaya, Tokyo
158-8583 (JP). **KUBOTA, Masayuki** [JP/JP]; 33-1, Tam-
agawadai 2-chome, Setagaya, Tokyo 158-8583 (JP).(74) Agents: **KNECHT, Harold C., III** et al.; Office of In-
tellectual Property Counsel, Post Office Box 33427, Saint
Paul, MN 55133-3427 (US).(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: **DEVICE FOR APPLYING ADHESIVE TAPE**

(57) Abstract: An adhesive tape application device 10 for adhering an adhesive tape onto an objective surface area having various profiles. The adhesive tape application device (10) includes a holding mechanism (12) for holding the adhesive tape T of a profile coinciding with that of the objective surface area with the adhesive surface T1 directing outward, and a pressing mechanism (14) for press-bonding the adhesive tape onto the objective surface area. The holding mechanism (12) includes a suction member (18) with an elastic holding surface (16) to be brought into contact with a back surface T2 of the adhesive tape, a base member (20) for holding the suction member to be movable in the pressing direction transverse to the holding surface, and a vacuum source (22) connected to the suction member and generating the negative pressure adjacent to the holding surface to hold the adhesive tape by suction on the holding surface. The pressing mechanism has a drive section (24) for subjecting the suction member to the parallel movement in the pressing direction relative to the base so that the adhesive surface of the adhesive tape held on the holding surface by suction is pressed onto the objective surface area.



Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.